

# ***Headquarters U.S. Air Force***

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***Integrity - Service - Excellence***

## ***Modeling & Simulation Strategic Planning***



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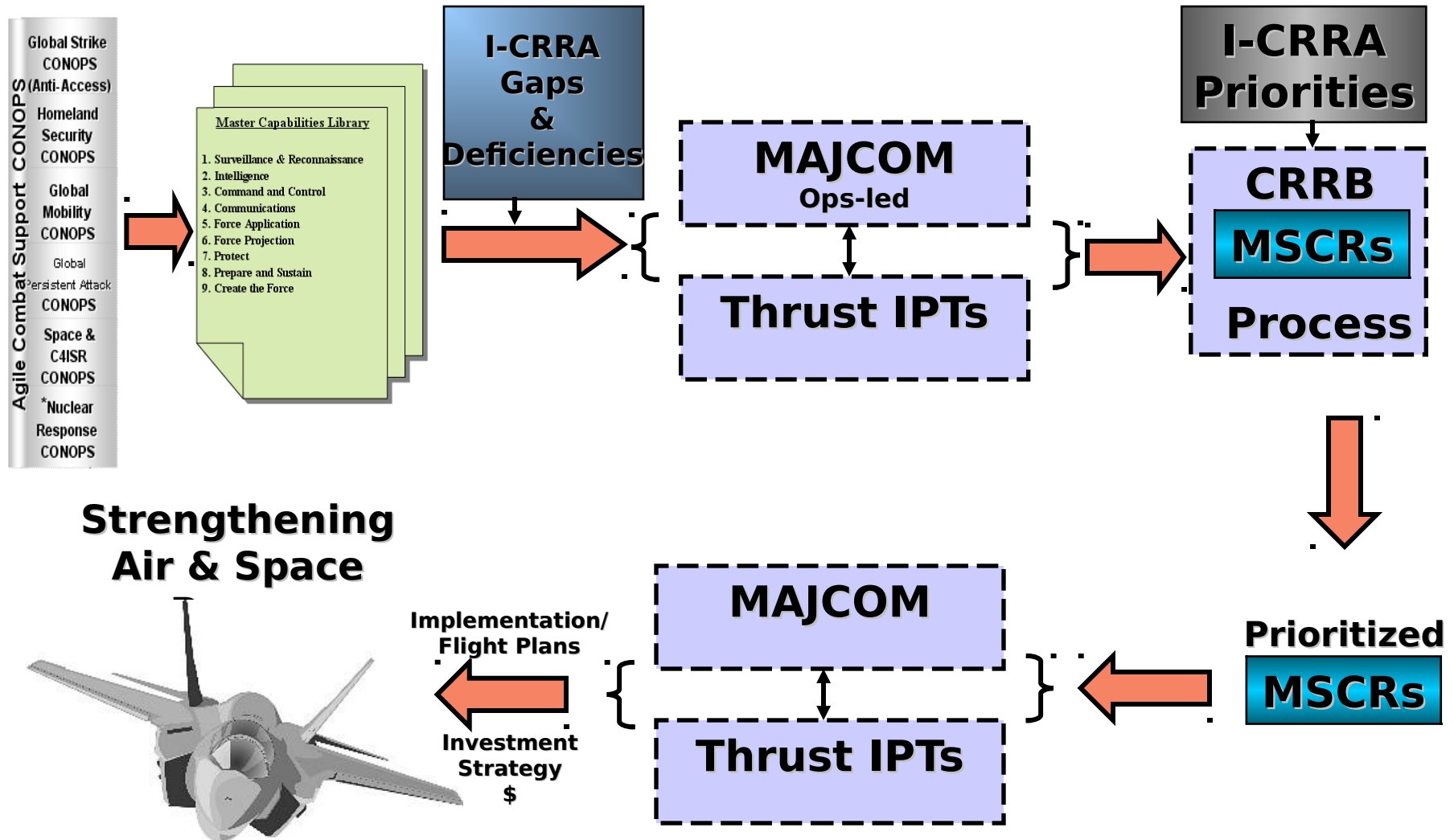
# ***The Challenge***

- **Integrate, Coordinate, and Focus AF Modeling and Simulation to support the Warfighter.**
- **Align with AF Capabilities Requirements Process**
- **Ensure Warfighter needs are addressed**
- **Ensure AF priorities are addressed**
- **Provide useful framework for entire AF M&S community**



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# *The Way Ahead*



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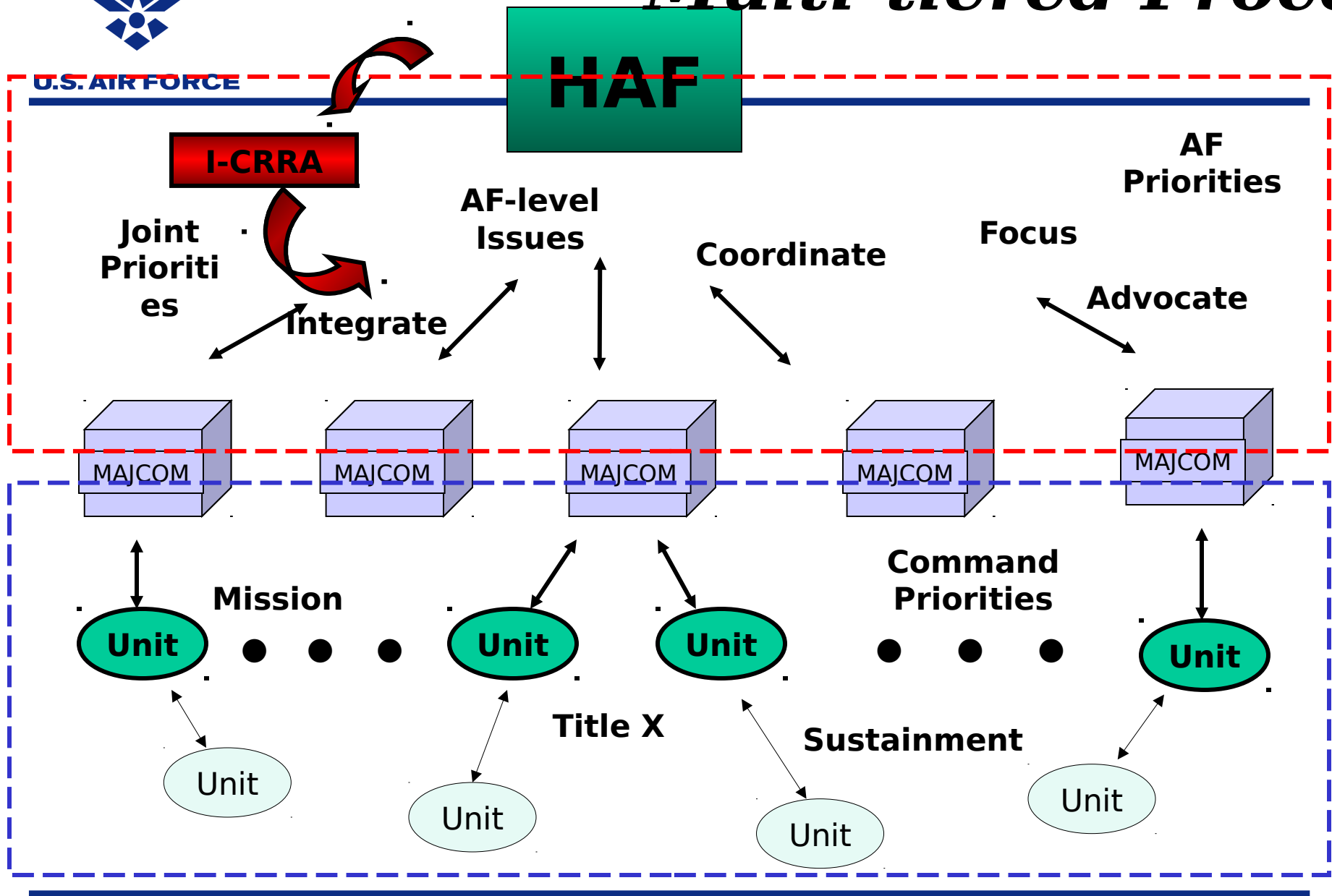
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# ***Multi-Tier***

- **The TOP TIER is designed to identify, coordinate, and achieve important AF level capabilities that will be funded and led by HqAF, MAJCOMs, or other high-level AF Organizations, and require integration, coordination, and advocacy at the HAF Level.**
  
- **The Lower Tiers support the MAJCOM level and below in developing their M&S investment strategies to support the Warfighter and can provide useful input into the top tier. They start with MCL derived capability requirements and result in integrated, coordinated, and focused M&S investment plans within the organization.**
- **Provides a framework for organizations throughout AF to discuss and advocate M&S Capability Requirements and investment strategies coherently with top-level AF M&S activities and aligns these activities with Warfighter needs. Details of prioritization and investment may be different.**



# Multi-tiered Process

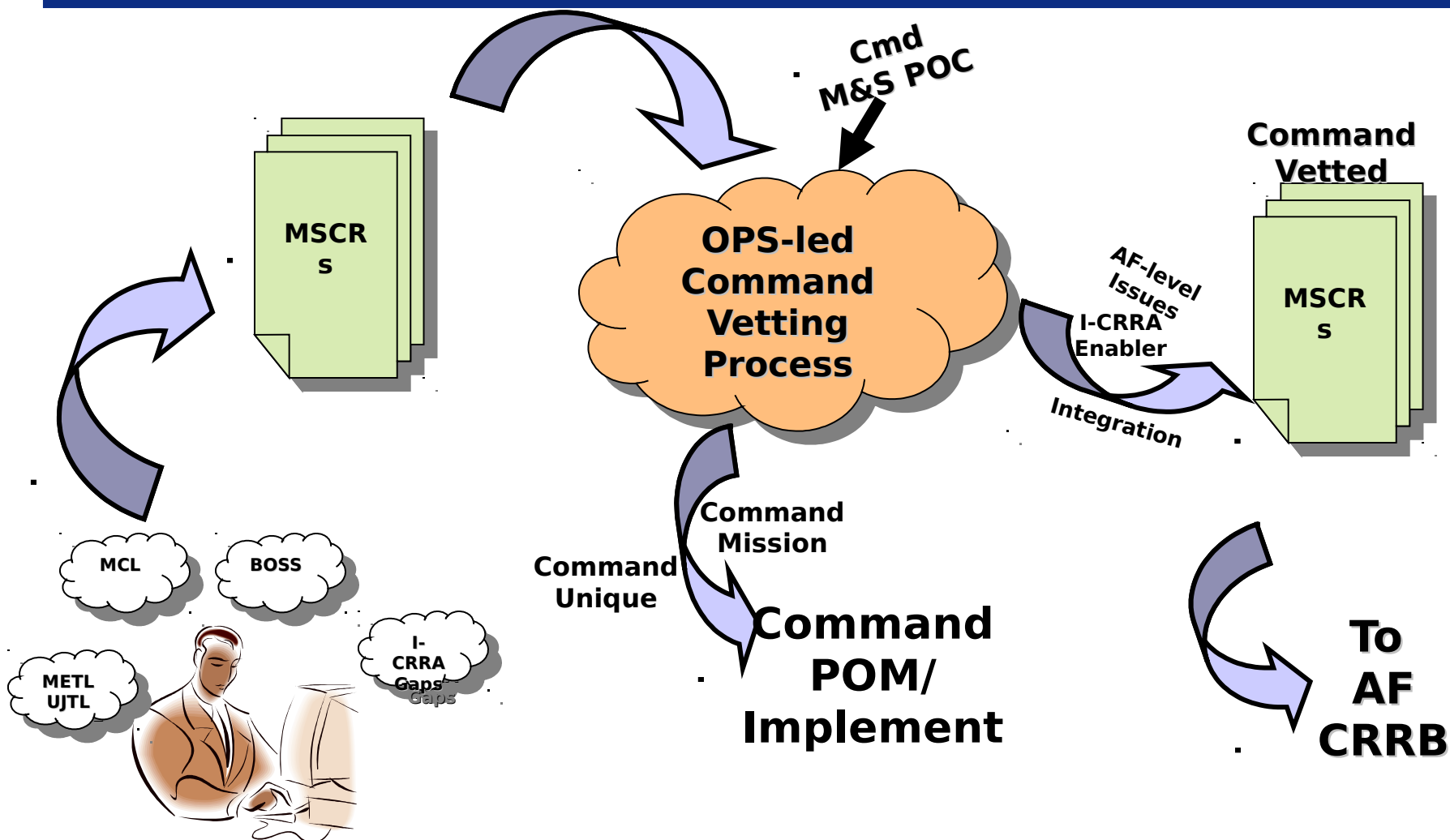


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# *At the MAJCOM level*



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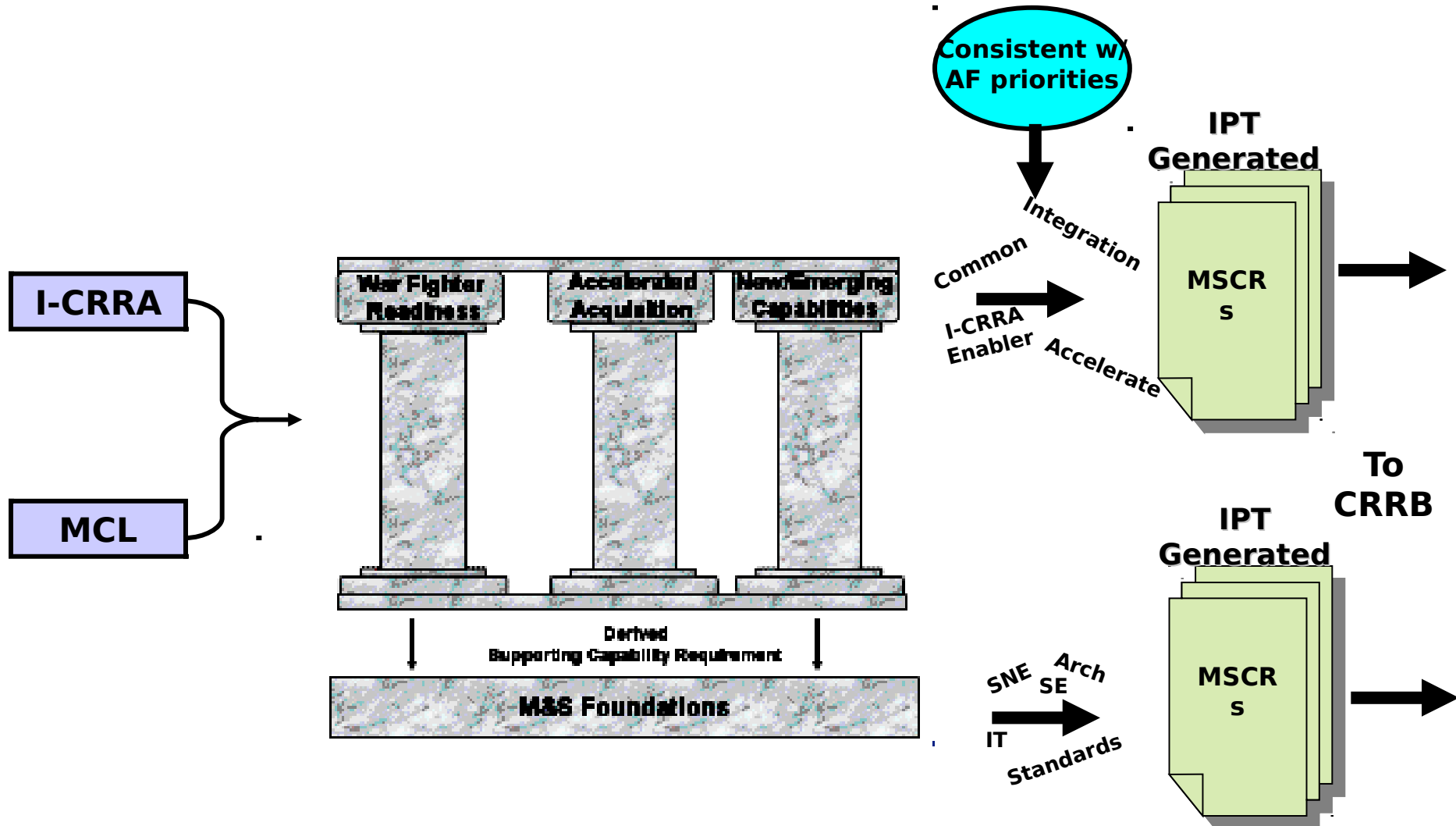


- **Prepare MSCRs**
- **Vet MSCRs - Operations led**
  - **Identify Top-level AF issues**
    - **I-CRRA enabler**
    - **Integration issues**
    - **Foundation Issues**
    - **Issues requiring high-level advocacy and coordination**
  - **Forward priority issues for CRRB consideration**
- **Implement Capabilities**
  - **AF Priorities**
  - **Command Priorities**



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# Thrust IPT Capability Requirements



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# ***Warfighter Readiness***

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- **Improve wartime decision-making, skills, and processes**
- **Includes**
  - **Training**
  - **Mission Rehearsal**
  - **Operational Decision Support**
  - **Concept Development**
  - **Wargaming to teach warfighting skills**
- **Applies to**
  - **Individual**
  - **Team**
  - **Inter-team**
  - **Team-of-teams**
- **Champion - AF/XO and AF/XI**
- **Executive Agent - DMO IPT**



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# ***Accelerated Acquisition***

- **Reduce the time or resource expenditure to provide or improve material solutions to warfighter needs**
- **More efficient/coordinated M&S processes for**
  - **Design**
  - **Development**
  - **Test and evaluation**
  - **Maintainability**
  - **Logistics**
- **Champion - SAF/AQ**
- **Executive Agent - Accelerated Acquisition IPT**
- **Co-chair - AFMC/EN and AFAMS**



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# ***New and Emerging Capabilities***

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- **M&S capabilities needed to support decisions on shaping the future force**
- **Includes**
  - **Science and Technology**
  - **Analysis**
  - **Concept exploration**
  - **Futures wargaming**
- **Champion - AF/XO**
- **Executive Agent - NEC IPT**



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# ***M&S Foundations***

- **Improve the usefulness, productivity, scalability, or efficiency of other M&S capabilities**
- **Derived from other 3 thrusts**
- **Improve development**
  - **Effectiveness and efficiency of multiple M&S activities**
- **Includes**
  - **Information Technology**
    - **Architectures**
    - **Standards**
    - **Databases**
  - **Interoperability**
  - **Interconnectivity**
  - **Consistent Synthetic Environments**
- **Champion - AF/XI**
- **Executive Agent - M&S Foundations IPT**



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# ***Role***

## ***Thrust (IPT) Executive Agent***

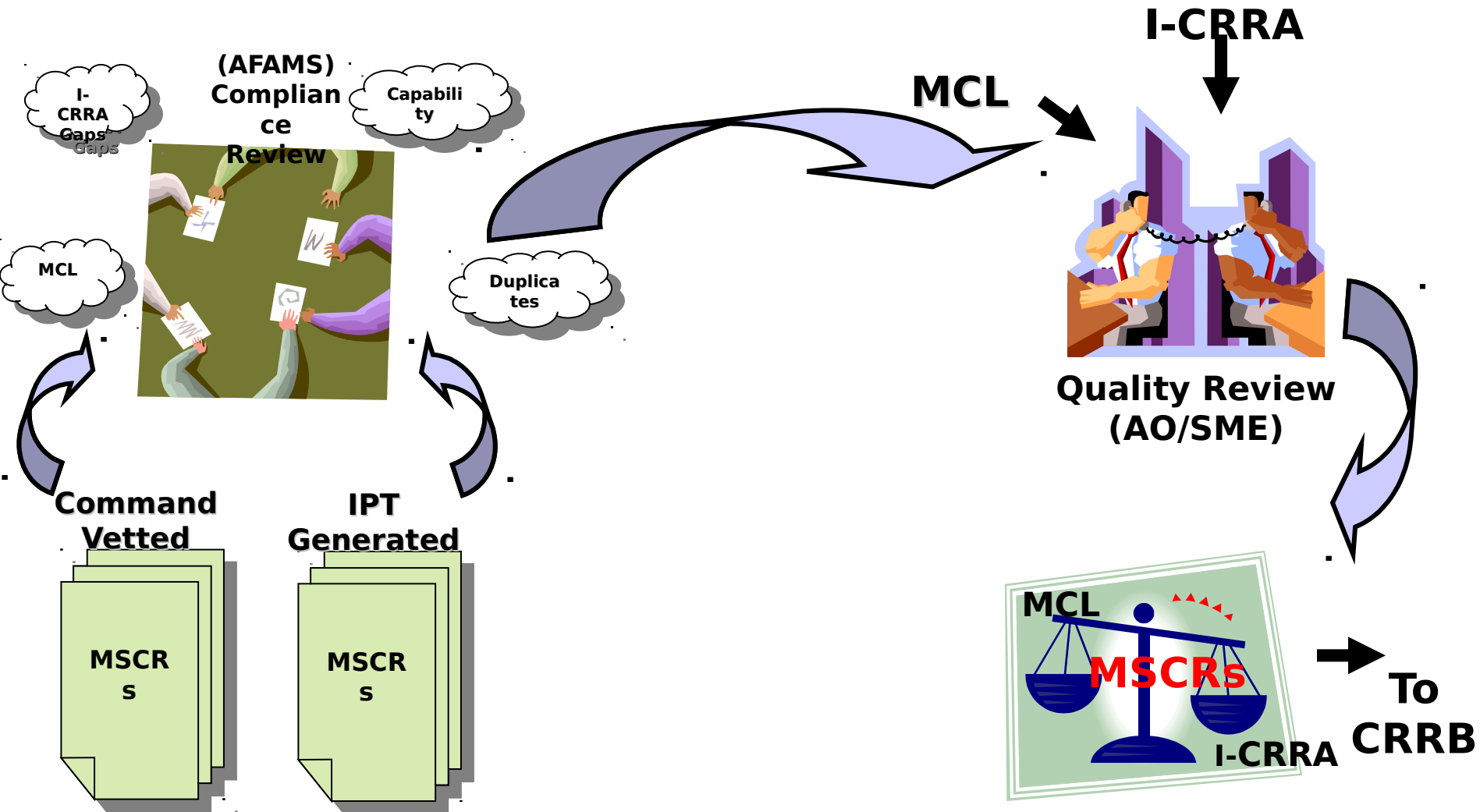
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- **Integrate, coordinate & focus M&S activities across MAJCOMs to achieve Thrust objectives**
- **Submit MSCRs supporting Thrust activities, consistent w/AF priorities**
  - **Identify**
    - **I-CRRA Enablers**
    - **Common capability needs**
    - **Integration Issues**
    - **Capability acceleration opportunities**
    - **Foundation issues**
- **Monitor/Coordinate MSCR implementation**
  - **Develop Flight/Implementation Plans**
  - **Propose/report Metrics**
- **XI overall Thrusts integrator**



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# MSCR Review



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# ***Compliance Review (AFAMS)***

## ***Purpose***

- **Insure MSCRs are prepared IAW instructions**
- **Combine/eliminate duplicate Capability Requirements**
- **Insure MSCRs are:**
  - **MCL-based and -**
  - **I-CRRA focused or -**
  - **Important integration or capability coordination issue**



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# ***Quality Review (AO/SME)***

## ***Purpose***

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- **Qualitative review of MSCR**
  - **Support to warfighter (I-CRRA)**
  - **Support to AF CONOPS capability (MCL)**
  - **Importance as integration/capability coordination issue**
- **Recommended Thrust alignment**



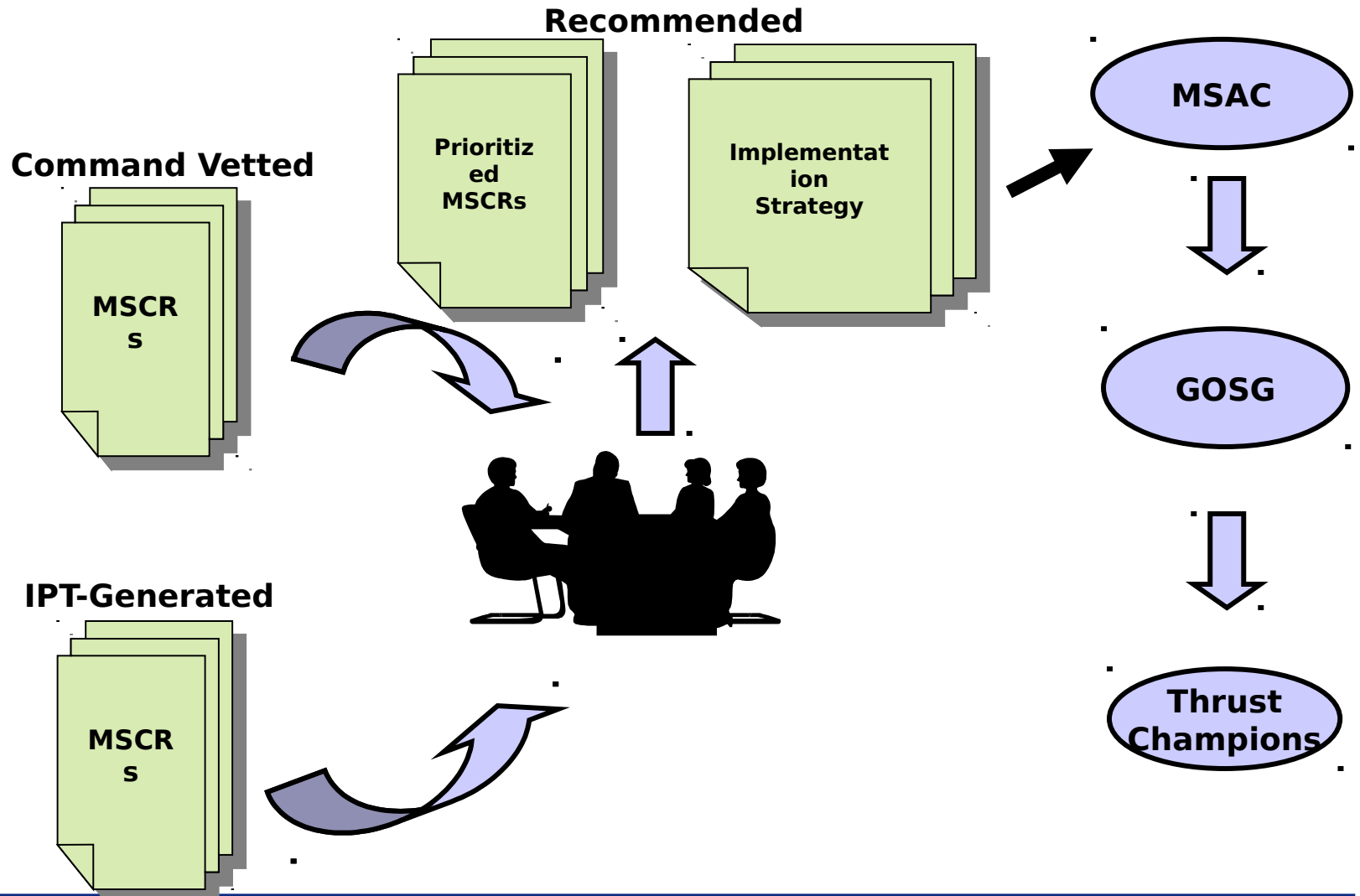


- **Review/coordinate Thrust activities**
  - **Flight/Implementation plans and metrics**
  - **Identify integration opportunities**
  - **Identify common/multi-use opportunities**
  - **Recommend Foundation priorities**
- **Review AO/SME assessed MSCRs**
  - **Apply I-CRRA weighting**
  - **Review/adjust priorities**
- **MAJCOM priority MSCR reconsiderations**
- **Recommend MSCRs for MSAC/GOSG consideration**
  - **Recommend priorities**
  - **Recommend implementing agent**
  - **Recommend investment strategy**
  - **Recommend Thrust and Champion**



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# CRRB Review

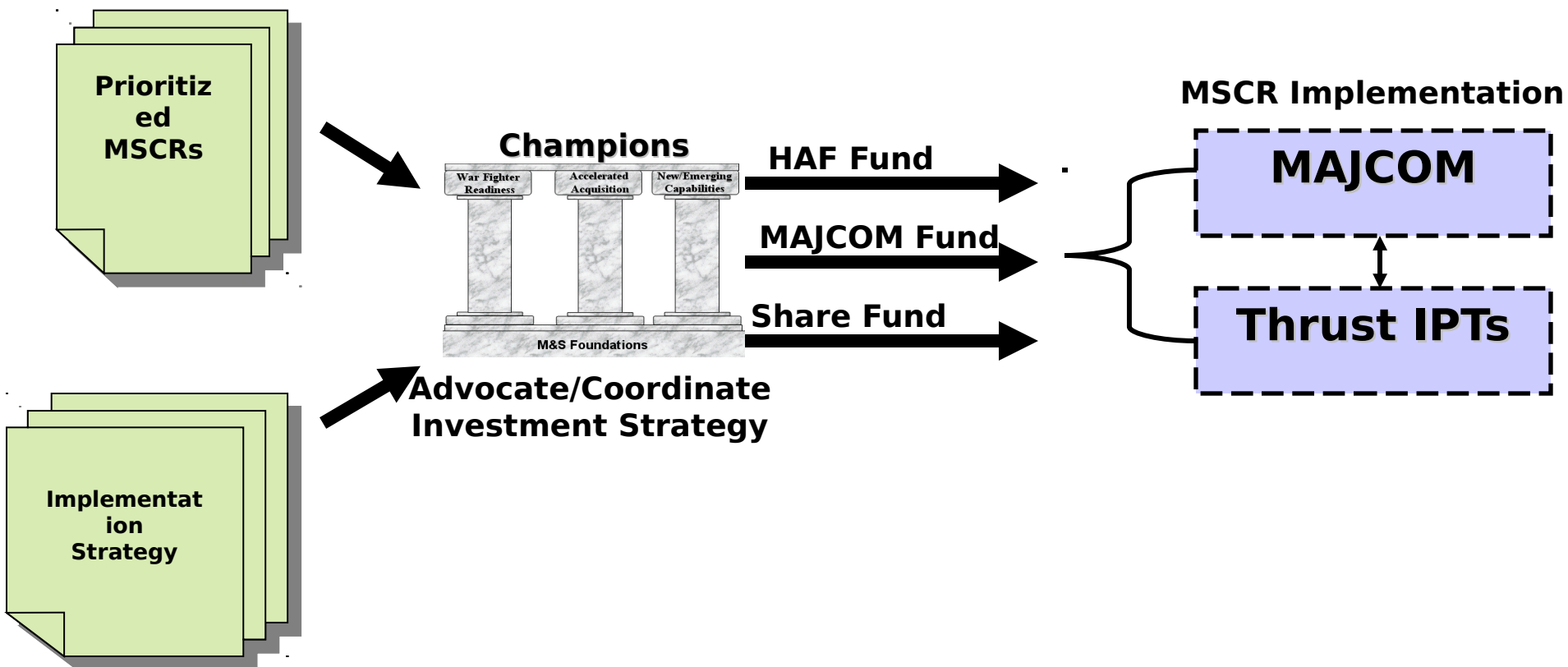


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# Resource Advocacy





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# ***Role Thrust Champion***

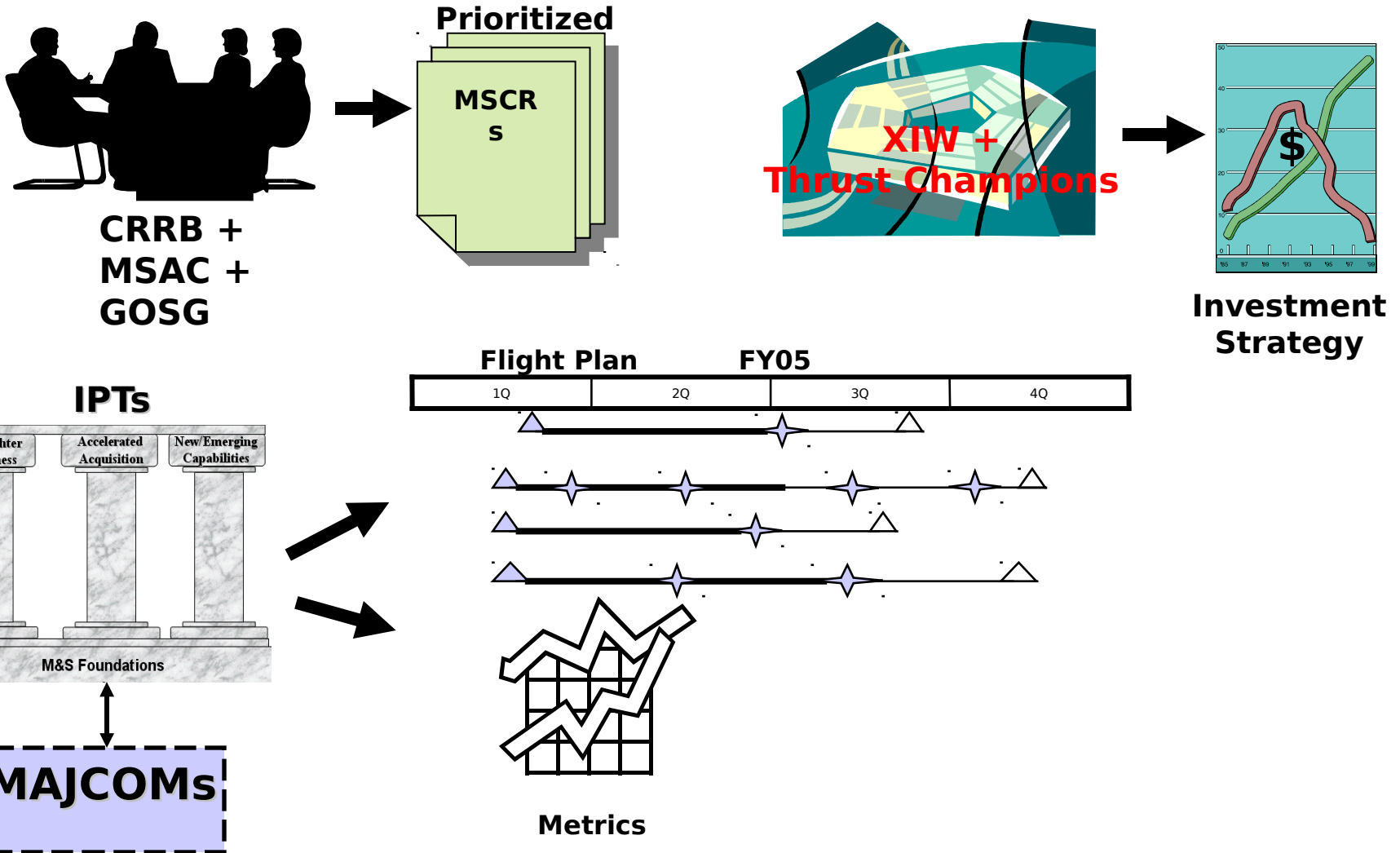
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- **HAF-level advocate for Thrust activities**
- **Establish policy supportive of AF and Thrust M&S goals**
- **Advocate resources for prioritized MSCRS**
- **Coordinate resources among subordinate organizations**
- **Coordinate resource opportunities with other Champions**
- **Provide input to APPG to enhance M&S activities IAW overall AF priorities**



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# Strategic Planning

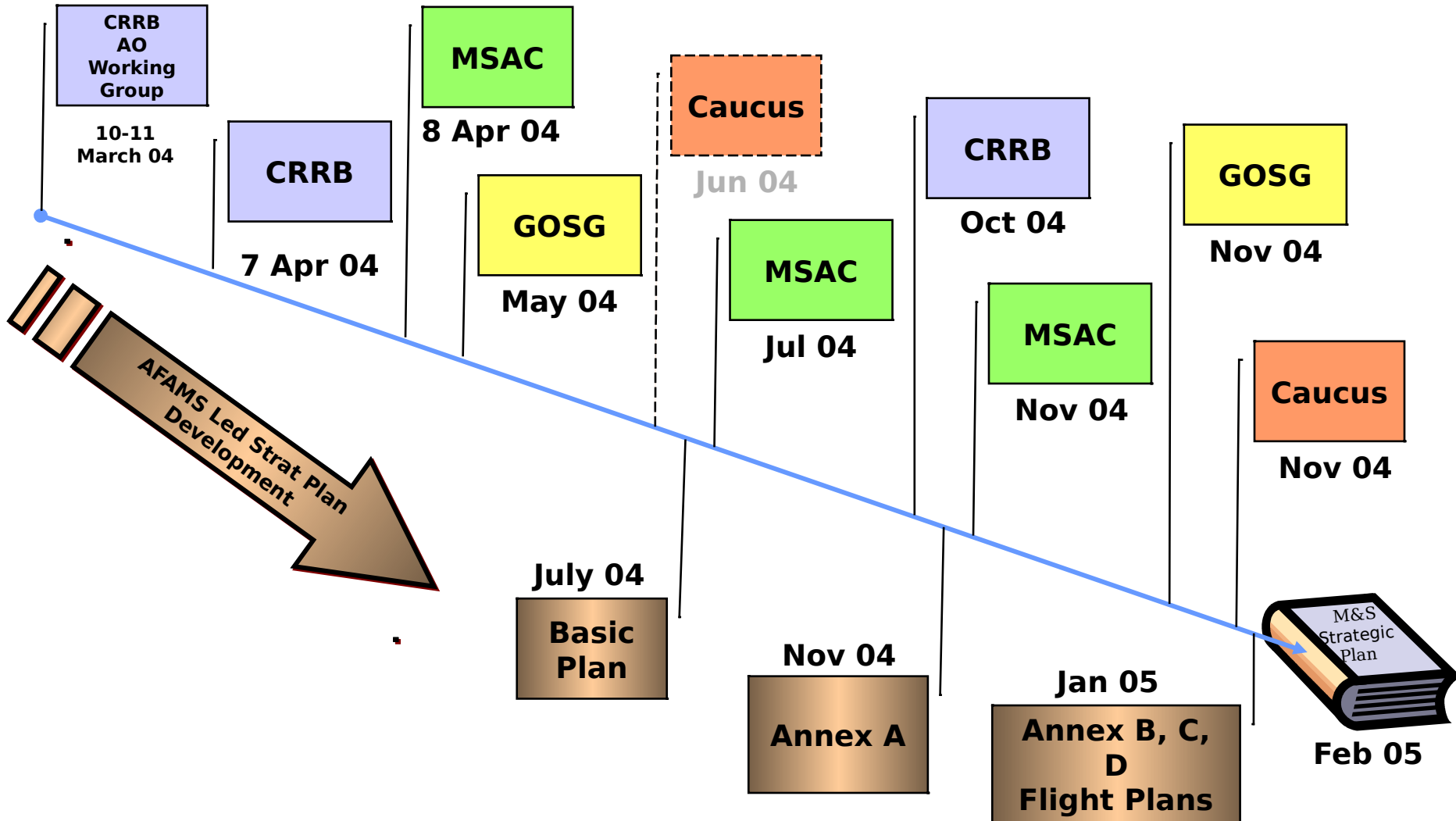


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# Strategic Plan Timeline

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- **CRRB AO Working Group - 10-11 March**
  - **Flesh out details of revised process**
- **CRRB - 7 April**
  - **Review/adjust revised process**
  - **Recommend to MSAC**
- **MSAC - April**
  - **Review and approve process**
- **GOSG**
  - **Activate NEC IPT**
  - **Solicit Thrust Champions support**